

FlexGripper - Clamp

Palletizing gripper



The FlexGripper - Clamp is a simple plug-and-play extension to the ABB IRB 460 or IRB 660 palletizing robots. For maximum palletizing efficiency, the gripper can handle up to 70 kilograms.

Wide-ranging flexibility

The IRB 660 and the compact IRB 460 palletizing robots can be made even more effective for end-of-line palletizing applications with the addition of the FlexGripper - Clamp, handling up to 70 kilograms.

Easy to integrate, easy to use

The FlexGrippers are easy to install and program. The robot HMI, FlexPendant, comes pre-configured with FlexGripper input/output signals which greatly reduces both set up and programming time. And the graphical user interface simplifies the testing of palletizing routines. For example a FlexGripper pick-and-place test can be carried out with just a single click.

Faster, more accurate programming

ABB's range of palletizing robots and FlexGrippers are also fully supported by the RobotStudio Palletizing PowerPac. This user-friendly, PC based software, comes pre-configured with all ABB robots and gripper models. It allows users who have little or no robot programming experience to create programs and simulations, and design complete palletizing installations. This enables a palletizing system to be configured rather than programmed, and saves up to 80 percent in commissioning time.

Speed and precision

The FlexGripper-Clamp is equipped with sensors to verify the presence of cases. Their wide clamping strokes are adaptable to different case sizes. The included hook units ensure secure handling of the cases when moving at high speeds. It also comes complete with all air hoses and signal cables and is ready to plug-and play on your chosen robot model.

Unrivalled experience and global support

With more than 30 years of experience in the palletizing sector, ABB has sales and service organization in 53 countries and over a 100 locations.

Features and benefits

- Wide clamping stroke adapts to different case width
- Rubber pad to increase friction force
- Hook unit for high speed movements
- Sensors to verify presence / absence of cases.
- Adjustable stationary plate and pneumatic cylinder for different case sizes.
- Built-in pallet claw and slip sheet picker as an option.
- Completely assembled with hoses and cables for easy plug-and-play installation.
- Graphical User Interface (GUI) provided on robot FlexPendant for easy gripper setup, tuning, and production monitoring.

Main application		
Case palletizing		
Specifications		
Handled products in sigle pick	1	
Max. weight per lift	IRB 460	IRB660
	40kg	70kg
Gripper weight	70kg	
Maximum product size (LxWxH)	650 x 500 x 330 mm	
Minimum product size (LxWxH)	200 x 200 x 150 mm	
Number of zones	1	
Cable rotation range	+ - 180°	
Air pressure	5 - 6 bar	
Default Configuration		
Case picking only		
Add-on options		
Slip sheet picking: 1000 mm x 1200 mm		
Pallet picking: GMA/AUS/EUR/ISO		
Remarks		
Due to variations in size, weight, design, surface, rigidity, porosity and centre of gravity, an example of the type of product to be palletized should always be sent to LPG Robots and Applications in order to secure functionality.		

